

## VCL Presentations

### Vegetation Canopy Lidar (VCL) Publications and Resources

(links directly to the University of Maryland Vegetation Canopy Lidar resources)  
PRESENTATIONS

- Exploring Geomorphic and Biological Landscape Organization and Scaling Within Drainage Basins Using Lidar Remote Sensing

Ralph Dubayah, I. Rodriguez-Iturbe, Michelle Hofton, J. Bryan Blair, and E. Zinecker

Talk given at the 2000 Fall American Geophysical Union Meeting. San Francisco, CA.

- A Comparison of Wide-Footprint Laser Altimetry Measurements With X-Band Interferometric SAR to Characterize Surface Topography and Vegetation

Michelle Hofton, Ralph Dubayah and J. Bryan Blair

Talk given at the 2000 Fall American Geophysical Union Meeting. San Francisco, CA.

- Observing the Interaction of Terrestrial Ecosystems and Hydrological Processes at the Landscape Scale Using Laser Altimetry

E. Zinecker, K. Prestogaard, Ralph Dubayah and Robert Knox

Talk given at the 2000 Fall American Geophysical Union Meeting. San Francisco, CA.

- Validation of VCL land topography products

M. Hofton, R. Dubayah, B. Blair

Talk given at 7th meeting of Terrain Mapping Sub group, CEOS Working Group Calibration/Validation Gaithersburg, MD

Oct 2000

- Primary and secondary controls on measurements of forest height using large-footprint lidar at the Hubbard Brook LTER.

Robert Knox, J. Bryan Blair, Paul Schwarz, Michelle Hofton and Ralph Dubayah

Talk given at the 2000 Annual Meeting of The Ecological Society of America. Salt Lake City, UT.

- The Vegetation Canopy Lidar mission: The Earth as Never Seen Before

Ralph Dubayah, J. Bryan Blair, Michelle Hofton, Robert Knox

Talk given at 2000 Annual Meeting of American Association of Geographers, Pittsburgh PA April 2000

- The earth as never seen before: The Vegetation Canopy Lidar mission

Ralph Dubayah, J. Bryan Blair, David Clark, Michelle Hofton, Robert Knox, and John Weishampel

Talk given at IGARSS 2000 meeting, Honolulu HI, July 2000

- The Earth as Never Seen Before: VCL and the Lidar Revolution in Land Surface Characterization

Ralph Dubayah, J. Bryan Blair, David Clark, Michelle Hofton, Robert Knox, Steve Prince and John Weishampel

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Modeling surface structure derived from laser altimeter return waveforms using high-resolution elevation data

J. Bryan Blair and Michelle Hofton

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Detecting Changes in Vertical Surface Structure Using Laser Altimetry

Michelle Hofton and J. Bryan Blair

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Landscape-Scale Canopy Complexity in and Near Braulio Carillo National Park, Costa Rica

Robert Knox, J. Bryan Blair, David Clark and Ralph Dubayah

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Three- and Four-dimensional Structure of an Old-growth Tropical Rainforest Canopy

John Weishampel, Jason Godin, Rick Condit, S. Bohlman and Ralph Dubayah

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Three- and Four-dimensional Structure of an Old-growth Tropical Rainforest Canopy

John Weishampel, Jason Godin, Rick Condit, S. Bohlman and Ralph Dubayah

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Detection of Sub-Canopy Topography Using Lidar Remote Sensing: U.S. Eastern Deciduous and Neo-Tropical Examples

Laura Rocchio, Michelle Hofton, Ralph Dubayah and J. Bryan Blair

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Seeing the Forest Through the Trees: Estimating Tropical Forest Carbon Content Using Laser Altimetry

Jason Drake, Birgit Peterson, J. Bryan Blair, David Clark Robert Knox, Michelle Hofton and Ralph Dubayah

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- Recovery of Canopy Heights Through Wide-Footprint Laser Altimetry in a Dense Tropical Rainforest

Birgit Peterson, Jason Drake, J. Bryan Blair, Michelle Hofton, Robert Knox, David Clark and Ralph Dubayah

Talk given at the 1999 Fall American Geophysical Union Meeting. San Francisco, CA.

- The Potential of Lidar Remote Sensing for Hydrological Land Surface Characterization

Ralph Dubayah, J. Bryan Blair, Robert Knox, and John Weishampel

Talk given at the 1998 Fall American Geophysical Union Meeting. San Francisco, CA.

- Mapping forest heights and topography with the Laser Vegetation Imaging Sensor.

Robert Knox, J. Bryan Blair, Ralph Dubayah

Talk given at the 1998 Annual Meeting of The Ecological Society of America. Baltimore, MD